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Commissioner for Patents  
Washington, D.C. 20231  
BOX PATENT APPLICATION

Attorney Docket No.: 010474  
Date: November 8, 2001  
Express Mail Label No.: EJ 8313 91158 US  
Customer No.: 023696

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23696

PATENT TRADEMARK OFFICE

Dear Sir:

Transmitted herewith for filing is the patent application of:

Inventor(s): ANDREW SENDONARIS

For: FREQUENCY TRACKING USING PILOT AND NON-PILOT SYMBOLS

Enclosed are:

1. ☒ Patent application (28) total pages.
2. ☒ Drawings: ☒ Formal (9) sheet(s) or ☐ Informal ( ) sheet(s).
3. ☒ Declaration/Power of Attorney: ☒ Signed ☐ Unsigned
4. ☒ An Assignment (1) pages and Recordation Form Cover Sheet.
5. ☐ A Preliminary Amendment ( ) pages.
6. ☐ Information Disclosure Statement (IDS):
  - a. ☐ PTO-1449
  - b. ☐ Copies of IDS Citations (number of citations: )
7. ☐ Other:

CLAIMS:	(a) Filed	(b) Extra Claims	Large Entity Fee	Fee Paid
Total*	31 - 20	11	x \$18 =	\$198
Independent**	5 - 3	2	x \$84 =	\$168
Multiple Dependent Claim(s): <input type="checkbox"/> No <input type="checkbox"/> Yes			\$270	\$0
APPLICATION FILING FEE			\$740	\$740
			TOTAL FEE	\$1106

\*If the number in column a is less than 20, enter 0 in column b.

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8. ☐ A check in the amount of \$\_\_\_\_\_ is enclosed to pay the filing fee.
9. ☒ Please charge Deposit Account No. 17-0026 of QUALCOMM Incorporated the amount of \$1106. The Commissioner is hereby authorized to charge payment of any additional fees which may be required, or credit any overpayment, to said Deposit Account No. 17-0026. A duplicate of this sheet is enclosed for fee processing.
10. ☒ The Commissioner is further hereby authorized to charge to said Deposit Account No. 17-0026, pursuant to 37 CFR 1.25(b), any fee whatsoever which may become properly due or payable, as set forth in 37 CFR 1.16 to 37 CFR 1.18 inclusive, for the entire pendency of this application without specific additional authorization.

Date: November 8, 2001

Signature: \_\_\_\_\_

George C. Pappas, Reg. No. 35,065  
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QUALCOMM Incorporated  
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5775 Morehouse Drive  
San Diego, California 92121-1714  
Telephone: (858) 651-1179  
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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:  
ANDREW SENDONARIS

For: FREQUENCY TRACKING USING  
PILOT AND NON-PILOT SYMBOLS

Serial No.: UNKNOWN

Group Art Unit: UNKNOWN

Filed: HEREWITH

CERTIFICATE OF MAILING UNDER 37 CFR § 1.10

Commissioner of Patents  
BOX PATENT APPLICATION  
Washington, D.C. 20231

Dear Sir:

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I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR § 1.10 on the date indicated above and is addressed to the Commissioner of Patents, Box Patent Application, Washington, D.C. 20231. Enclosed herewith are the following documents: TRANSMITTAL LETTER; CERTIFICATE OF MAILING UNDER 37CFR § 1.10; PATENT APPLICATION IN 28 PAGES, FORMAL DRAWINGS IN 9 pgs COMBINED DECLARATION AND POWER OF ATTORNEY IN 1 PAGE; ASSIGNMENT IN 1-PAGE, RECORDATION COVER SHEET IN 1-PAGE and POSTCARD.

Darla D. Lallo

(Name)

(Signature)

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